

201.65680

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Nayfeh et al.

Serial No.: 09/990,250

Filed: November 21, 2001

For: FAMILY OF DISCRETELY SIZED  
SILICON NANOPARTICLES AND  
METHOD FOR PRODUCING THE  
SAME

Art Unit: 1754

Examiner: Unassigned

)  
) I hereby certify that this paper is being deposited with the United  
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) Feb. 7, 2003                       
) Date

) Registration No. 43,874  
) F-CLASS.WCM  
) Appr. February 20, 1998 Attorney for Applicant

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

In accordance with 37 C.F.R. §§1.56, 1.97 and 1.98, Applicants through  
counsel submit copies of the patents and publications identified in the attached form  
PTO-1449 as follows:

U.S. PATENT DOCUMENTS

PATENT NO.	PATENTEE	ISSUE DATE
3,597,624	David Weiner	08/03/1971
5,537,000	Alivisatos et al.	07/16/1996
5,703,896	Pankove et al.	12/30/1997

PATENT NO.	PATENTEE	ISSUE DATE
5,881,200	Burt	03/09/1999
5,906,670	Dobson et al.	05/25/1999
6,326,311	Ueda et al.	12/04/2001
6,407,424	Forbes	06/18/2002

### **FOREIGN PATENT DOCUMENTS**

DOCUMENT NO.	PUBLICATION DATE	COUNTRY
0 354 141	02/07/1990	EP

### **PUBLICATIONS**

Gennadiy Belomoin, Joel Therrien, and Munir Nayfeh, "Oxide and hydrogen capped ultrasmall blue luminescent Si nanoparticles", Applied Physics Letters, Volume 77, Number 6, 7 August 2000, pp. 779-780.

M.L. Brongersma, K.S. Min, E. Boer, T.Tambo, A. Polman, and H.A. Atwater, "Tailoring the Optical Properties of Si Nanocrystals in SiO<sub>2</sub> Materials Issues and Nanocrystal Laser Perspectives", Mat. Res. Soc. Symp. Proc., Vol. 486, 1998 Materials Research Society, pp. 213-217.

L.E. Brus, P.F. Szajowski, W.L. Wilson, T.D. Harris, S. Schuppler, and P.H. Citrin, "Electronic Spectroscopy and Photophysics of Si Nanocrystals: Relationship to Bulk c-Si and Porous Si", J. Am. Chem. Soc., 1995, Vol. 117, pp. 2915-2922.

Tetsuya Makimura, Yasuhiko Kunii and Kouichi Murakami, "Light Emission from Nanometer-Sized Silicon Particles Fabricated by the Laser Ablation Method", Jpn. J. Appl. Phys., Vol. 35, (1996), pp. 4780-4784.

M. Nayfeh, O. Akcikir, J. Therrien, Z. Yamani, N. Barry, W. Yu, and E. Gratton, "Highly nonlinear photoluminescence threshold in porous silicon", Applied Physics Letters, Volume 75, Number 26, 27 December 1999, pp. 4112-4113.

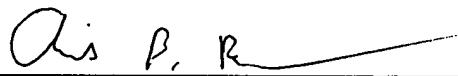
### REMARKS

Applicants respectfully request that the Examiner consider the above-listed references in the examination of this application and list these references of record in the application.

The Commissioner is hereby authorized to charge any additional fees which may be required to this application under 37 C.F.R. 1.16-1.17, or credit any overpayment, to Deposit Account No. 07-2069. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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